

Work Order ID 87141

87141

Page 1

July-11-12 8:55:39 AM

Item ID: D3551-11 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Hook and Loop Tie **25**
 Start Date: 7/10/12 Start Qty: 5.00 ***5*** Cust Item ID:
 Required Date: 8/03/12 Req'd Qty: 5.00 ***5*** Customer:
 Reference:

Approvals: Process Plan: *[Signature]* Date: 12-07-12 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| D3551 | Rev A |

| | | | | | | | | | |
|--------------|--|------|--|--|--|--|--|--|--|
| 100 | PURCHASING | 0.00 | | | | | | | |
| *100* | | | | | | | | | |
| Purchasing | Memo | 0.00 | | | | | | | |
| Purchasing | Issue P/O: <u>17451</u> Purchase Part Number: 6605K56 Supplier: Mc | | | | | | | | |
| | Master Carr Certificate of conformity is required | | | | | | | | |

CL 12/07/16 25

| | | | | | | | | | |
|--------------|--|------|--|--|--|--|--|--|--|
| 110 | Receive & Inspect for Damage & Mat'l Certs | 0.00 | | | | | | | |
| *110* | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Ensure certificate of conformity is attached | | | | | | | | |

[Signature]

| | | | | | | | | | |
|-----------------|------------------------------------|------|--|--|--|--|--|--|--|
| 120 | QC6- Inspect dimensions to drawing | 0.00 | | | | | | | |
| *120* | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

D 16 12/07/12

Comp 125

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

87141

July-11-12 8:55:39 AM

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 7/10/12 **Start Qty:** 5.00 ***5***

Cust Item ID:

Required Date: 8/03/12 **Req'd Qty:** 5.00 ***5***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

130 Identify as per dwg & Stock Location: ST 246A 0.00

130

| | | |
|-----------|------|------|
| Packaging | Memo | 0.00 |
|-----------|------|------|

Packaging

| | | |
|-----|---|------|
| 140 | QC21- Final Inspection - Work Order Release | 0.00 |
|-----|---|------|

140

| | | |
|----|------|------|
| QC | Memo | 0.00 |
|----|------|------|

Quality Control

25x _____ 8p
12-7=23

12/1/24

CMF
12-07-23

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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| | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

July-11-12 8:55:39 AM

Page 1

Work Order ID: 87141

Parent Item: D3551-11

Start Date: 7/10/12

Required Date: 8/03/12

Parent Item Name: Hook and Loop Tie

Start Qty: 5.00

Required Qty: 5.00

Comments: IPP Rev:A New Issue 06-09-27 JLM

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| 6605K56 HOOK AND LOOP TIE | | Purchased | No | | | 110 | Each | 0.0000 | 1 | 5.25 | | 6/27/12 | (20) |

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

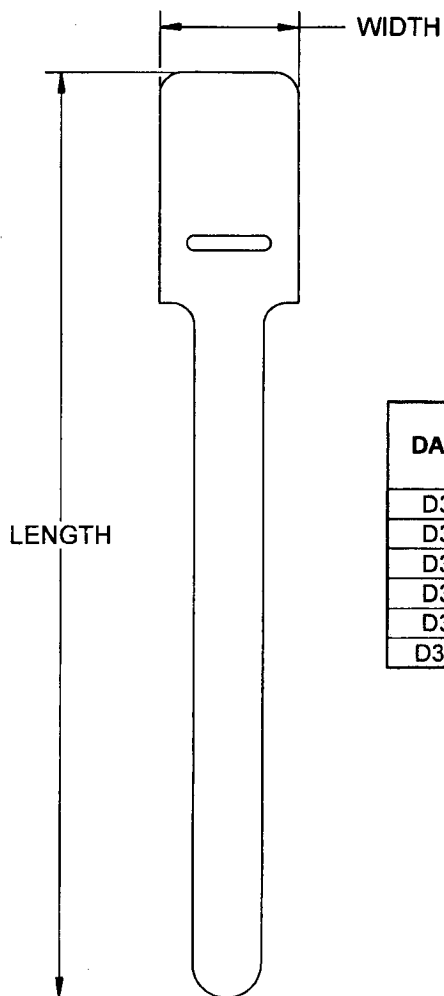
| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries



| | | | |
|-------------------------|--------------------------------|--|------------------------|
| DESIGN <i>LE</i> | DRAWN BY <i>LE</i> | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| CHECKED <i>qp</i> | APPROVED <i>[Signature]</i> | DRAWING NO. D3551 | REV. A SHEET 1 OF 1 |
| DATE 06.08.28 | | TITLE HOOK AND LOOP TIE | SCALE NTS |
| REV A | DATE 06.08.28 | DESCRIPTION NEW ISSUE | |

SPECIFICATION CONTROL DRAWING



87141

| DART P/N | LENGTH (in) | WIDTH (in) | MCMMASTER-CARR P/N | SPEEDTECH P/N |
|----------|-------------|------------|--------------------|---------------|
| D3551-1 | 6 | 1 | 6605K51 | SW.75X6BK889 |
| D3551-3 | 8 | 1 | 6605K52 | SW.75X8BK889 |
| D3551-5 | 11 | 1 | 6605K53 | SW.75X11BK889 |
| D3551-7 | 15 | 1.5 | 6605K54 | SW1.5X15BK889 |
| D3551-9 | 18 | 1.5 | 6605K55 | SW1.5X18BK889 |
| D3551-11 | 24 | 1.5 | 6605K56 | SW1.5X24BK889 |

D3551-X HOOK AND LOOP TIE

MATERIAL: BLACK BACK-TO-BACK HOOK AND LOOP MATERIAL, FLAME-RETARDANT NYLON

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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | Other |
|---|---|--|
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Grain |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Hardware |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete |
| <input type="checkbox"/> Crushed/Crimped | <input type="checkbox"/> Burrs | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Maintenance |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Countersink | <input type="checkbox"/> Mislabeled |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Misread |
| <input type="checkbox"/> Ripples in Bend | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Offset |
| <input type="checkbox"/> Torque Waves in Extrusion | <input type="checkbox"/> Drawing | <input type="checkbox"/> Out of Calibration |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Sequence |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Folio | <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized |
| | | <input type="checkbox"/> Over/Under tolerance |
| | | <input type="checkbox"/> Part Incorrect |
| | | <input type="checkbox"/> Part Lost/Missing |
| | | <input type="checkbox"/> Part Moved |
| | | <input type="checkbox"/> Positioned Wrong |
| | | <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced |
| | | <input type="checkbox"/> Temperature/Cure |
| | | <input type="checkbox"/> Weld |
| | | <input type="checkbox"/> Wrong Stock Pulled |
| | | <input type="checkbox"/> Other |



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO17451**

Purchase Order Date 7/16/12

PO Print Date 7/17/12

Page Number 1 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

| | | | |
|--------------------|--------------|-----------------|---------------------|
| Contact Name | | Buyer | Chantal Lavoie |
| Vendor Phone | 330 995 5500 | Requisition Nbr | |
| Vendor Fax | 330 995 9600 | Tax Resale Nbr | 10127-2607 |
| Vendor Account Nbr | | Terms | Net 10 |
| | | Currency | USD |
| | | FOB | Destination-Collect |

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
6/26/12

| Line Nbr | Reference Revision ID Vendor Part Number | Description/ Mfg ID | Req Date/ Taxable | Req Qty/ Unit of Measure | Ship Method | Unit Price | Extended Price |
|----------|--|------------------------|---|-----------------------------|------------------|------------|-------------------|
| 1 | 92311A639 | SS SET SCREW | 7/18/12 Yes | 200.00 Each | FedEx PI collect | \$0.6619 | \$132.38 |
| | | Special Inst: | AS PER DWG D2747 REV. B B86827 MCMaster P/N: 92311A639 | | | | |
| 2 | 6605K56 | HOOK AND LOOP TIE | 7/18/12 Yes | 25.00 Each | FedEx PI collect | \$2.7780 | \$69.45 |
| | | Special Inst: | AS PER DWG D3551 REV. A B87141 MCMaster P/N: 6605K56 5 PCS PER PKS | | | | |
| 3 | 8672K31 | UHMW U-Channel | 7/18/12 Yes | 20.00 f | FedEx PI collect | \$2.2700 | \$45.40 |
| | | Special Inst: | AS PER DWG D4287 REV. A B87848 MCMaster P/N: 8672K31 | | | | |

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 2

Change Date: 7/17/12



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Dan P

Purchase Order
PO17451

McMaster-Carr Number
7192863-02

07/17/2012

| Line | Description | Ordered | Shipped |
|------|---|-------------|---------|
| 1 | 92311A639 Type 18-8 Stainless Steel Cup Point Socket Set Screw, 3/8"-24 Thread, 1" Length, Packs of 10 | 20 Packs | 20 |
| | Unit Price: \$5.91 | | |
| | Extended Price: \$118.20 | | |
| 2 | 6605K56 Hook and Loop Cable Tie, Black Flame-Retardant Wrap Around, 24" L, 3/4" Width, Packs of 5 | 5 Packs | 5 |
| | Unit Price: \$13.89 | | |
| | Extended Price: \$69.45 | | |
| 4 | 2915A43 2 in 1 Countersink, Long, 60 Degree, High-Speed-Steel, Trade Size 4, 1/8" Drill, 6" L | 1 Each | 1 |
| | Unit Price: \$22.01 | | |
| | Extended Price: \$22.01 | | |
| 5 | 2915A87 2 in 1 Countersink, Long, 60 Degree, High-Speed-Steel, Trade 4-1/2, 9/64" Drill, 6" L | 1 Each | 1 |
| | Unit Price: \$23.50 | | |
| | Extended Price: \$23.50 | | |

| LNS A83 | | | | |
|--------------|---------|------|-------|---|
| 2 - 697 - 04 | 04 - 31 | A639 | 20 PK | 1 |
| 3 - 125 | | | | 2 |
| 2 - 501 | | | | 4 |
| 2 - 501 | | | | 5 |

Dart Aerospace Ltd

EXP
INV
NAFTA



7 lbs
6 lines

Lg

38x12x12

FW1WBP24
07/17/2012
06:26/08:57
972
Cycle 17

1140438048473

